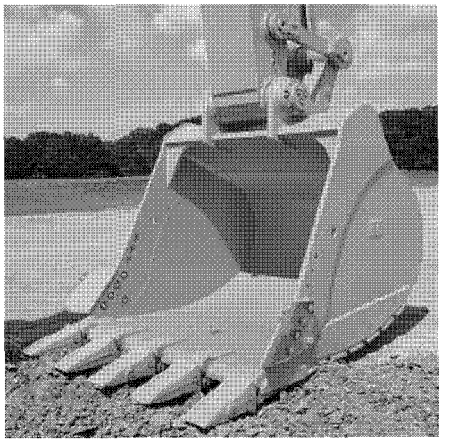
Buckets

Extensive selection of buckets helps optimize machine performance.

All 385B Buckets Increase Service Life and Optimize Performance.

- High strength and heat treated steel in high wear areas.
- Dual radius design for increased heel clearance and reduced wear.
- HB and JB buckets include a lift eye.

General Purpose (GP) Buckets. For digging in low-impact, moderately abrasive materials such as dirt, loam, gravel, and clay.



Heavy Duty Rock (HDR) Buckets. For aggressive bucket loading in highly abrasive applications such as shot rock and granite.

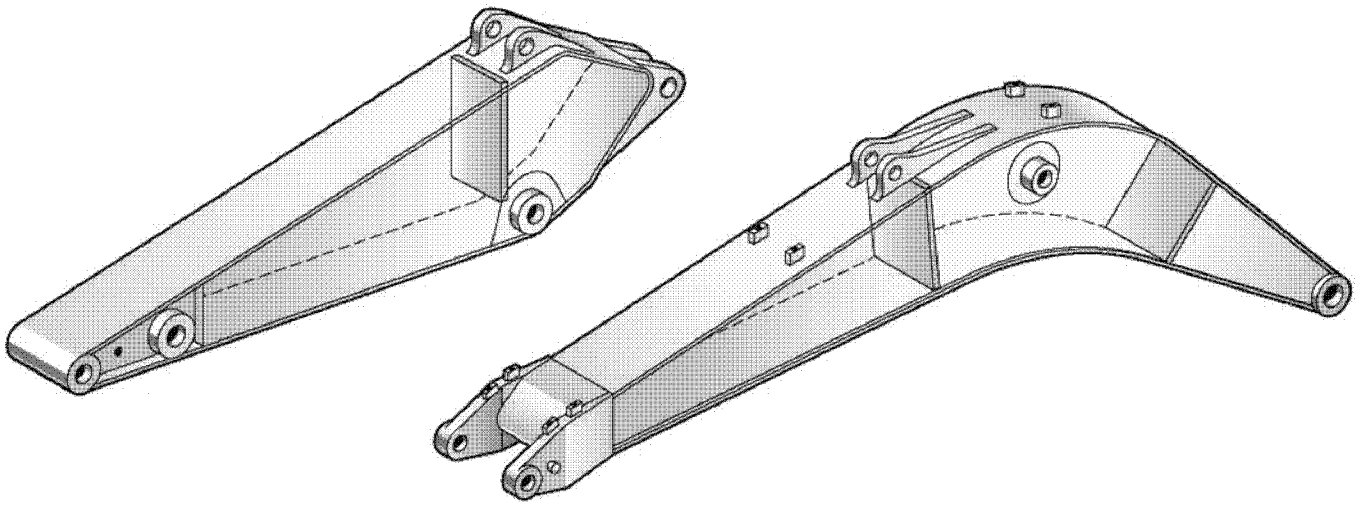
Differences from GP buckets:

- More robust bucket construction for improved life and durability.
- Additional, thicker bottom wear strips for improved wear and durability in highly abrasive applications.
- Side wear plates are thicker and extend further up the bucket for maximum protection in rocky materials.
- Smaller tip radius provides greater breakout force at the tips.

Caterpillar Ground Engaging Tools (GET). The Caterpillar Ground Engaging Tools (GET) include a variety of sidecutters, sidebar protectors, tip options and adapters to match operating conditions.

Booms, Sticks and Attachments

The 385B is designed with the flexibility to help deliver higher production and efficiency.



Reach Boom - 10 m (32 ft 10 in) long. For use in deep trenching applications where long reach and depth are necessary. Two long sticks are available for this boom.

General Purpose Boom - 8.4 M (27 ft 7 in) long. The GP boom has been designed to balance the reach, digging force and the bucket capacity, and offer a wide range of applications such as digging, loading and trenching. Four sticks are available for this boom.

Mass Excavation Boom - 7.25 m (23 ft 9 in) long. This is the most suitable boom for high production loading where reach and depth are less important. It allows use of the largest buckets. Two sticks are available for this boom.

Boom Construction. All 385B booms feature large cross-sections, which are effective in reducing weight and enhancing rigidity. Also, the inside of the boom is reinforced by baffle plates to provide higher rigidity and less stress. All booms are stress relieved for extended life without added weight.

Stick. There are four lengths in six types of sticks for the 385B for maximum productivity in various applications. Each stick is used in a combination with a specific boom and bucket family.

Stick Construction. The 385B sticks are made of high-tensile strength steel using a large box section design with interior baffle plates and an additional bottom plate to protect against rock damage. All sticks are stress relieved for long life.

Bucket Linkage. Two bucket linkages are available for the 385B. The HB family is used with the longer sticks and takes HB family buckets; the JB family is used with the shorter sticks and takes JB family buckets.

Linkage Pin. All pins used in 385B front linkages have a thick chrome plating, giving them high wear and corrosion resistance. The diameter of each pin is made as large as possible to smoothly distribute the shear and bending loads associated with the digging and lifting forces.

Operator Station

Designed for comfort and ease of operation.

Operator Environment. The work station is designed to be spacious, quiet and comfortable for the operator, assuring high productivity during a long work day. Seat and console adjustments allow for proper fitting to the operator. A positive pressure, filtered, and highly efficient ventilation system is provided. The cab has been positioned forward to provide excellent visibility into deep trenches.

Seat. This seat has a variety of adjustments to suit the operator's size and weight including fore/aft, height and weight. Also included are lumbar support, wide adjustable armrests and a retractable seat belt. It allows the operator to select the most comfortable setting.

Heating and Ventilation. Positive filtered ventilation with a pressured cab and an automatic air conditioner come standard on the 385B. Fresh air or re-circulated air can be selected with a switch on the left console.

Windows. The cab provides excellent viewing through large, wide windows. Both lower and upper portions of the front windshield can be easily stored in an overhead position. A sliding window on the cab door allows convenient communication between the operator and nearby workers. Glazing is polycarbonate for vandal protection, except for the windshield and sliding door window. Guards are included to cover these windows.

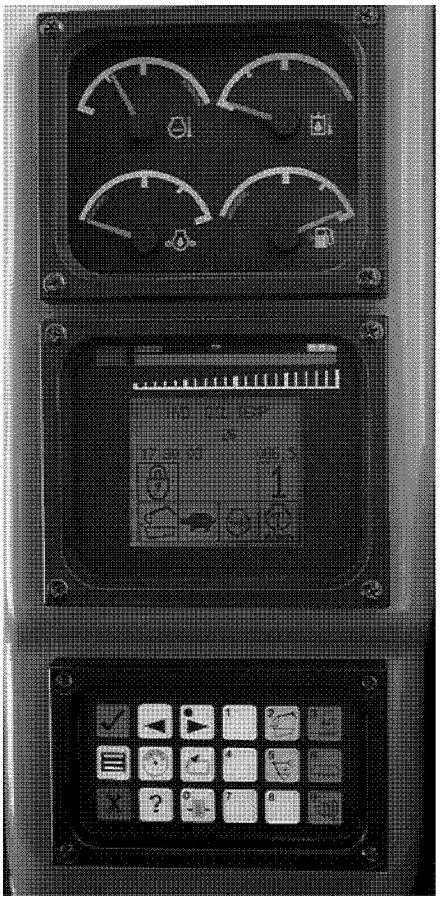
Wiper. Upper and lower windshield wipers and washers are included as standard equipment to assure good visibility for the operator in wet or dusty conditions.

Skylight. The large, fixed-type, Polycarbonate skylight delivers excellent natural lighting and upward visibility.

Console. The consoles contain the climate controls, start switch, engine speed dial, joysticks and miscellaneous switches. All items are within easy reach of the operator.

Controls. Electronic joystick controls have low lever effort and eliminate pilot lines. Control pattern can be changed electronically to suit operator preference. The operator can choose a level of gain/response from quicker and more productive to slower and more precise using a button on the console to optimize operation for different applications.

Sun Screen (optional). A sunscreen, which can be used to cover the upper windshield or the skylight, is available as an option.



Monitor. The Caterpillar designed electronic control system uses VIDS (Vital Information Display System) as the interface between the machine and the operator or the serviceman. VIDS includes an analog gauge section, a display screen and a keypad.

Cab Exterior. Handrails are attached to both sides of the cab door to facilitate entry and exit. A filtered air ventilation port on the left side of the cab brings in fresh air. The cab is designed to allow direct mounting of the optional falling objects guard recommended for applications involving overhead operation.

Cab Mounts. The 385B uses six viscous cab mounts. They use rubber and silicon oil to absorb vibrations in two stages. They provide a higher level of vibration dampening than do rubber mounts. The mounts also help limit the sound level in the cab.

Complete Customer Support

Cat dealer services help you operate longer with lower costs.

Selection. Make detailed comparisons of the machines you are considering before you buy. What are the job requirements? What production is needed? What is the true cost of lost production? Your Cat dealer can give you precise answers to these questions.

Operation. Improving operating techniques can boost your profits. Your Cat dealer has training literature and other ideas to help you increase productivity.

Maintenance. Repair option programs guarantee the cost of repairs up front. Diagnostic programs such as Scheduled Oil Sampling and Technical Analysis help you avoid unscheduled repairs.

Replacement. Repair, rebuild, or replace? Your Cat dealer can help you evaluate the cost involved so you can make the right choice.

Product Support. You will find nearly all parts at our dealer parts counter. Cat dealers utilize a worldwide computer network to find in-stock parts to minimize machine down time. Save money with remanufactured components.

Service and Maintenance

Simplified service and maintenance features save time and money.

Service intervals. The service intervals are extended to reduce maintenance costs.

- Engine oil, oil filter and fuel filters at 500 hours.
- Hydraulic oil at 4000 hours for normal applications (with S•O•S℠ monitoring).

Hydraulic capsule filters. Hydraulic capsule filters are mounted outside the tank to prevent spills and system contamination during replacement.

Oil sample and pressure ports. Oil sample and pressure ports provide easy checking of machine condition.

Service Points. Service points are centrally located with easy access to facilitate routine maintenance.

Pilot Hydraulic System Filter. Pilot hydraulic system filter keeps contaminants away from the pilot system.

Swing and travel motor case drain filter. A swing and travel motor case drain filter keeps contaminants from returning to the tank.

Radial seal main air cleaner. Radial seal main air cleaner with precleaner has a double-layered filter element for more efficient filtration. No tools are required to change the element. Operator is alerted to clogged condition by a message on VIDS.

Water Separator. Water separator removes water from fuel even when under pressure and is located in the battery compartment for easy access.

Remote greasing block. Remote greasing block on the boom and three grease points for the swing bearing deliver grease to hard to reach locations.

Electronic System Control. Electronic System Control has diagnostic capabilities for Cat Dealers' use. A single connection point allows Electronic Technician (Cat ET) to communicate with all machine controllers.

Engine

Engine Model	Caterpillar 3456 ATAAC	
Net Flywheel Power	382 kW	513 hp
ISO 9249	382 kW	513 hp
SAE J1349	382 kW	513 hp
EEC 80/1269	382 kW	513 hp
Bore	140 mm	5.51 in
Stroke	171 mm	6.73 in
Displacement	15.8 L	964 in^3

- The 385B meets EPA Tier 2 and EU Stage II emission requirements.
- Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler and alternator.
- No engine power derating required below 2300 m (7500 ft) altitude.

Weights

Operating Weight - Standard Undercarriage • General Purpose Boom, R4.4 (14'5") stick, 1678 mm (66") GP Bucket, 750 mm (30") shoes.	83 510 kg	183,940 lb
Operating Weight - Long Undercarriage • General Purpose Boom, R4.4 (14'5") stick, 1678 mm (66") GP Bucket, 900 mm (36") shoes.	86 160 kg	189,770 lb

Track

Standard w/Standard Length Undercarriage	750 mm	30 in
Standard w/Long Undercarriage	900 mm	36 in
Optional for Standard Length Undercarriage	900 mm	36 in
Optional for Long Undercarriage	750 mm	30 in
Number of Shoes Each Side - Standard Undercarriage	47	
Number of Shoes Each Side - Long Undercarriage	51	
Number of Track Rollers Each Side - Standard Undercarriage	8	
Number of Track Rollers Each Side - Long Undercarriage	9	
Number of Carrier Rollers Each Side	3	

Swing Mechanism

Swing Speed	6.2 RPM	
Swing Torque	260 kN•m	191,770 lb ft

Drive

Maximum Travel Speed	4.5 kph	2.8 mph
Maximum Drawbar Pull - Standard Undercarriage	592 kN	133,030 lb
Maximum Drawbar Pull - Long Undercarriage	591 kN	132,810 lb

Hydraulic System

Main System - Maximum Flow (Total)	980 L/min	258 gal/min
Swing System - Maximum Flow	450 L/min	119 gal/min
Maximum Pressure - Equipment - Normal	32 000 kPa	4,640 psi
Maximum Pressure - Equipment - Heavy Lift	35 000 kPa	5,075 psi
Maximum Pressure - Travel	35 000 kPa	5,075 psi
Maximum Pressure - Swing	26 000 kPa	3,770 psi
Pilot System - Maximum flow	90 L/min	23.8 gal/min
Pilot System- Maximum pressure	4100 kPa	595 psi
Boom Cylinder - Bore	210 mm	8.26 in
Boom Cylinder - Stroke	1967 mm	77.4 in
Stick Cylinder - Bore	220 mm	8.66 in
Stick Cylinder - Stroke	2262 mm	89.1 in
HB Family Bucket Cylinder - Bore	200 mm	7.87 in
HB Family Bucket Cylinder - Stroke	1451 mm	57.1 in
JB Family Bucket Cylinder - Bore	220 mm	8.66 in
JB Family Bucket Cylinder - Stroke	1586 mm	62.4 in

Service Refill Capacities

Fuel Tank Capacity	1240 L	328 gal
Cooling System	101 L	26.7 gal
Engine Oil	80 L	21.1 gal
Swing Drive (each)	19 L	5 gal
Final Drive (each)	21 L	5.5 gal
Hydraulic System (including tank)	995 L	263 gal
Hydraulic Tank	810 L	214 gal

Sound Performance

Performance	ANSI/SAE J1166 OCT 98

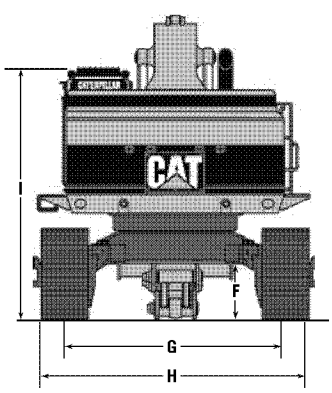
- When properly installed and maintained, the cab offered by Caterpillar, when tested with doors and windows closed according to ANSI/SAE J1166 OCT 98, meets OSHA and MSHA requirements for operator sound exposure limits in effect at time of manufacture.
- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained or doors/windows open) for extended periods or in noisy environment.

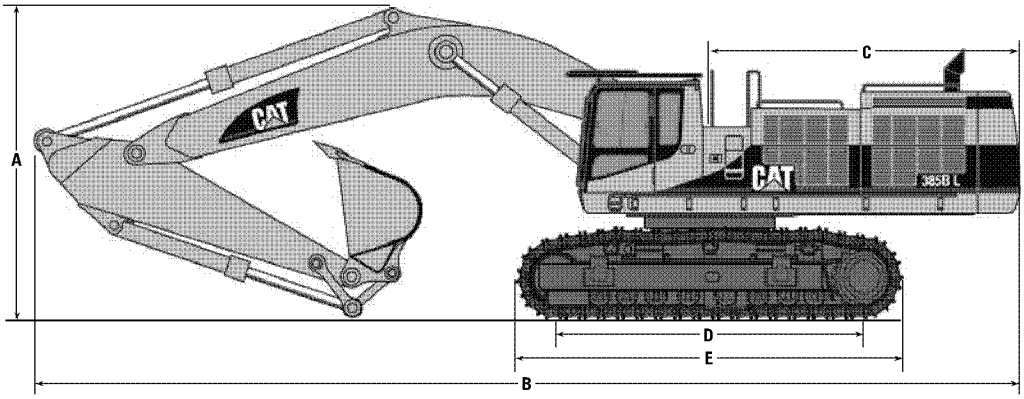
Standards

Brakes	SAE J1026 APR 90
Cab/FOGS	SAE J1356 FEB 88 ISO 10262

Dimensions

All dimensions are approximate.



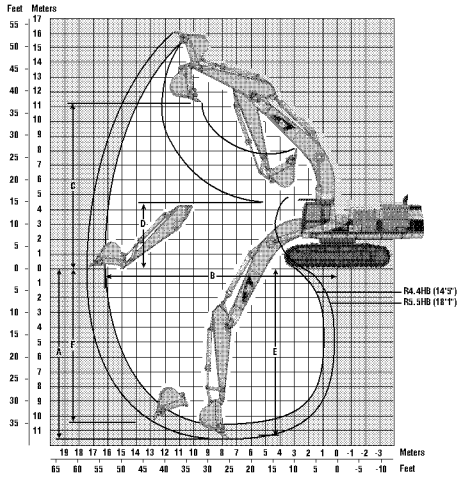


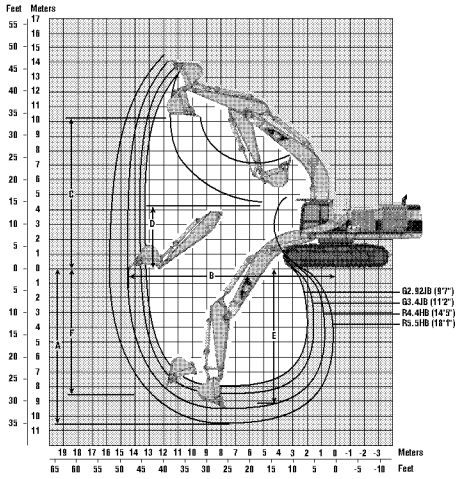
		Reach Boom 10.0 m (32'10")		General Purpose Boom 8.4 m (27'7")				Mass Boom 7.25 m (23'9")	
Stick		**5.5 m (18'1")**	**4.4 m (14'5")**	**5.5 m (18'1")**	**4.4 m (14'5")**	**3.4 m (11'2")**	**2.92 m (9'7")**	**3.4 m (11'2")**	**2.92 m (9'7")**
A	Shipping Height								
	With boom, stick and bucket	5320 mm (17'5")	4960 mm (16'3")	5870 mm (19'3")	5250 mm (17'3")	5060 mm (16'7")	4890 mm (16'1")	4970 mm (16'4")	4800 mm (15'9")
	Without stick and bucket	4020 mm (13'2")	4020 mm (13'2")	3760 mm (12'4")	3760 mm (12'4")	3760 mm (12'4")	3760 mm (12'4")	3870 mm (12'8")	3870 mm (12'8")
B	Shipping Length*								
	With boom, stick and bucket	16 230 mm (53'3")	16 290 mm (53'5")	14 420 mm (47'4")	14 660 mm (48'1")	14 220 mm (46'8")	14 750 mm (48'5")	13 520 mm (44'4")	13 510 mm (44'4")
	Without stick and bucket	14 620 mm (48'0")	14 620 mm (48'0")	12 950 mm (42'6")	12 950 mm (42'6")	12 950 mm (42'6")	12 950 mm (42'6")	11 750 mm (38'7")	11 750 mm (38'7")
C	Tail Swing Radius	4590 mm (15'1")	4590 mm (15'1")	4590 mm (15'1")	4590 mm (15'1")	4590 mm (15'1")	4590 mm (15'1")	4590 mm (15'1")	4590 mm (15'1")
D	Length to Center of Rollers								
	Standard Undercarriage	4600 mm (15'1")	4600 mm (15'1")	4600 mm (15'1")	4600 mm (15'1")	4600 mm (15'1")	4600 mm (15'1")	4600 mm (15'1")	4600 mm (15'1")
	Long Undercarriage	5120 mm (16'10")	5120 mm (16'10")	5120 mm (16'10")	5120 mm (16'10")	5120 mm (16'10")	5120 mm (16'10")	5120 mm (16'10")	5120 mm (16'10")
E	Track Length								
	Standard Undercarriage	5840 mm (19'2")	5840 mm (19'2")	5840 mm (19'2")	5840 mm (19'2")	5840 mm (19'2")	5840 mm (19'2")	5840 mm (19'2")	5840 mm (19'2")
	Long Undercarriage	6360 mm (20'10")	6360 mm (20'10")	6360 mm (20'10")	6360 mm (20'10")	6360 mm (20'10")	6360 mm (20'10")	6360 mm (20'10")	6360 mm (20'10")
F	Ground Clearance	850 mm (33.5")	850 mm (33.5")	850 mm (33.5")	850 mm (33.5")	850 mm (33.5")	850 mm (33.5")	850 mm (33.5")	850 mm (33.5")
G	Track Gauge (shipping)**								
	For 750 mm (30") shoes	2750 mm (9'0")	2750 mm (9'0")	2750 mm (9'0")	2750 mm (9'0")	2750 mm (9'0")	2750 mm (9'0")	2750 mm (9'0")	2750 mm (9'0")
	For 900 mm (36") shoes	2940 mm (9'8")	2940 mm (9'8")	2940 mm (9'8")	2940 mm (9'8")	2940 mm (9'8")	2940 mm (9'8")	2940 mm (9'8")	2940 mm (9'8")
H	Transport Width								
	For 750 mm (30") shoes	3500 mm (11'6")	3500 mm (11'6")	3500 mm (11'6")	3500 mm (11'6")	3500 mm (11'6")	3500 mm (11'6")	3500 mm (11'6")	3500 mm (11'6")
	For 900 mm (36") shoes	3840 mm (12'7")	3840 mm (12'7")	3840 mm (12'7")	3840 mm (12'7")	3840 mm (12'7")	3840 mm (12'7")	3840 mm (12'7")	3840 mm (12'7")
I	Cab Height	3660 mm (12'0")	3660 mm (12'0")	3660 mm (12'0")	3660 mm (12'0")	3660 mm (12'0")	3660 mm (12'0")	3660 mm (12'0")	3660 mm (12'0")

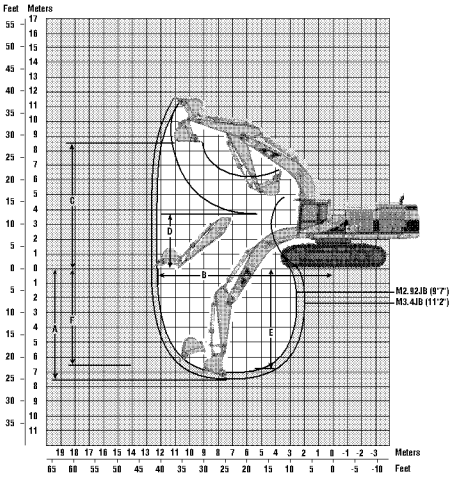
* Shipping length with boom removed: 7510 mm (24'8") for standard undercarriage, 7770 mm (25'6") for long undercarriage. Subtract 510 mm (1'8") from all shipping length dimensions if counterweight is removed.

** Track Gauge in extended (working) position: 3510 mm (11'6")

Working Ranges







		Reach Boom		General Boom				Mass Boom	
Stick		**R5.5HB (18'1")**	**R4.4HB (14'5")**	**R5.5HB (18'1")**	**R4.4HB (14'5")**	**G3.4JB (11'2")**	**G2.92JB (9'7")**	**M3.4JB (11'2")**	**M2.92JB (9'7")**
Bucket		**GP 2.9 m³ GP 3.88 yd³**	**GP 2.9 m³ GP 3.88 yd³**	**GP 3.8 m³ GP 5.00 yd³**	**GP 3.8 m³ GP 5.00 yd³**	**HDR 4.6 m³ HDR 6.00 yd³**	**HDR 4.6 m³ HDR 6.00 yd³**	**GP 5.4 m³ GP 7.25 yd³**	**GP 5.4 m³ GP 7.25 yd³**
A	Maximum Digging Depth	11 750 mm (38'7")	10 650 mm (34'11")	10 700 mm (35'1")	9600 mm (31'6")	8480 mm (27'10")	8000 mm (26'3")	7490 mm (24'7")	7020 mm (23'0")
B	Maximum Reach at Ground Level	17 200 mm (56'5")	16 180 mm (53'1")	15 680 mm (51'5")	14 630 mm (48'0")	13 690 mm (44'11")	13 260 mm (43'6")	12 530 mm (41'1")	12 110 mm (39'9")
C	Maximum Loading Height	11 000 mm (36'1")	10 580 mm (34'9")	9780 mm (32'1")	9320 mm (30'7")	9300 mm (30'6")	9120 mm (29'11")	8350 mm (27'5")	8180 mm (26'10")
D	Minimum Loading Height	3370 mm (11'1")	4470 mm (14'8")	2000 mm (6'7")	3100 mm (10'2")	4230 mm (13'11")	4700 mm (15'5")	3350 mm (11'0")	3830 mm (12'7")
E	Maximum Depth Cut for 2440 mm (8') Level Bottom	11 660 mm (38'3")	10 540 mm (34'7")	10 610 mm (34'10")	9490 mm (31'2")	8340 mm (27'4")	7850 mm (25'9")	7360 mm (24'2")	6880 mm (22'7")
F	Maximum Vertical Wall Digging Depth	7800 mm (25'7")	8760 mm (28'9")	7600 mm (24'11")	8280 mm (27'2")	7410 mm (24'4")	7060 mm (23'2")	6340 mm (20'10")	6020 mm (19'9")
Bucket Digging Force									
	(SAE)	288 kN (64,770 lb)	287 kN (64,530 lb)	288 kN (64,770 lb)	287 kN (64,530 lb)	401 kN (90,180 lb)	401 kN (90,090 lb)	382 kN (85,960 lb)	382 kN (85,870 lb)
	(ISO)	324 kN (72,930 lb)	323 kN (72,660 lb)	324 kN (72,930 lb)	323 kN (72,660 lb)	461 kN (103,570 lb)	460 kN (103,460 lb)	437 kN (98,140 lb)	436 kN (98,040 lb)
Stick Digging Force									
	(SAE)	206 kN (46,400 lb)	246 kN (55,350 lb)	206 kN (46,400 lb)	246 kN (55,350 lb)	297 kN (66,800 lb)	320 kN (71,870 lb)	292 kN (65,540 lb)	313 kN (70,390 lb)
	(ISO)	212 kN (47,610 lb)	254 kN (57,020 lb)	212 kN (47,610 lb)	254 kN (57,020 lb)	308 kN (69,190 lb)	332 kN (74,720 lb)	302 kN (67,870 lb)	325 kN (73,160 lb)